

## Fig. 1A

SUS1	SEQ ID NO: 2	ENGIL <u>RKWI</u> SRFDVW	native
SUS2	SEQ ID NO: 3	ENG <u>I</u> VRK <u>W</u> I SRFEVW	native
SS2	SEQ ID NO: 10	GIV <u>RKWI</u> SRFEVWPYLLKK	active
SS11	SEQ ID NO: 11	ILRVPFRTENG <u>I</u> RK <small>(NH2)</small>	inactive
SS12	SEQ ID NO: 12	GIV <u>RKWI</u> SRFEVWPYL <small>(NH2)</small>	active
SS15	SEQ ID NO: 13	GIV <u>RKAI</u> SRFEVAPYL <small>(NH2)</small>	less active
SS16	SEQ ID NO: 14	SRFEVWPYL <small>(NH2)</small>	less active
SP3	SEQ ID NO: 18	<sup>N</sup> R <u>RISSVE</u> <sup>N</sup> <sup>N</sup> D <u>KK</u> <small>(NH2)</small>	inactive
NR11	SEQ ID NO: 15	GPTLK <u>R</u> FASTAFMNTTSKK	inactive
SP26	SEQ ID NO: 16	GRM <u>RR</u> IATVEMMKK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EH <u>GIVTNWDDMEKIWHHTFY</u>	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

**Fig. 1B**

EN	GIVRK	WI	SRFEVW	PYL	KK
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$X_4$        $X_3$        $X_2$        $X_1$        $X_5$        $X_6$

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	$X_1$	SRFEVW
SEQ ID NO:17	$X_2-X_1$	WI SRFEVW
SEQ ID NO:14	$X_1-X_5$	SRFEVW PYL
SEQ ID NO:23	$X_2-X_1-X_5-X_6$	WI SRFEVW PYL KK
SEQ ID NO:12	$X_3-X_2-X_1-X_5$	GIVRK WISRFEVW PYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5-X_6$	GIVRK WISRFEVW PYL KK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	ENGIVRK WISRFEVW PYL KK